

Appl. No. 10/033,500
Amtd. Dated Mar. 17, 2004
Reply to Office Action of December 17, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. Claim 1 (currently amended): An optical subassembly for coupling with an optical connector, the optical subassembly comprising:

an optical sleeve defining a fixing hole to hold the optical connector;

an optical element for transferring optical signals; and

a lens holder connected with the optical sleeve, the lens holder comprising a cavity receiving the optical element therein, a protuberance directly coupling in the fixing hole of the optical sleeve, and a lens member, ~~the lens member~~ being disposed between the optical element and the optical connector to converge light beams from the optical element.

Claim 2 (original): The optical subassembly as described in claim 1, wherein the optical sleeve is integrally formed as a single piece, and the fixing hole includes a positioning portion for retaining the optical connector therein.

Claim 3 (original): The optical subassembly as described in claim 1, wherein the optical sleeve is integrally formed as a single piece, the fixing hole includes a positioning portion for retaining the optical connector therein, and further includes an engaging portion for fittingly receiving the protuberance of the lens holder therein.

Claim 4 (original): The optical subassembly as described in claim 3, wherein the positioning portion and the engaging portion are cylindrical and coaxial with each other.

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Claim 5 (original): The optical subassembly as described in claim 1, wherein the optical connector, the lens member and the optical element are all coaxial with one another.

Claim 6 (original): The optical subassembly as described in claim 1, wherein the protuberance, the lens member and the cavity are all coaxial with one another.

Claim 7 (original): The optical subassembly as described in claim 1, wherein the lens holder is made of transparent material.

Claim 8 (original): The optical subassembly as described in claim 1, wherein the protuberance includes a surface adapted to abut an end surface of the optical connector.

Claim 9 (currently amended): An optical subassembly for coupling with an optical connector, the optical subassembly comprising:

an optical sleeve being integrally formed as a single piece, and defining a fixing hole to hold the optical connector therein;

an optical element for transferring optical signals; and

a lens holder receiving the optical element therein, the lens holder including a protuberance and a lens member integrally formed, the protuberance connecting with the optical sleeve, the lens member being coaxially aligned between the optical connector and the optical element to converge light beams passing therebetween;

wherein the fixing hole includes a positioning portion for retaining the optical connector therein, and further includes an engaging portion for fittingly receiving the protuberance of the lens holder therein.

Claim 10 (original): The optical subassembly as described in claim 9, wherein the optical sleeve is integrally formed as a single piece, and the fixing hole

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includes a positioning portion for retaining the optical connector therein.

Claim 11 (cancelled)

Claim 12 (currently amended): The optical subassembly as described in claim 11, wherein the positioning portion and the engaging portion are cylindrical and coaxial with each other.

Claim 13 (original): The optical subassembly as described in claim 9, wherein the lens holder is integrally formed as a single piece, and defines a cavity for receiving the optical element.

Claim 14 (original): The optical subassembly as described in claim 13, wherein the protuberance, the lens member and the cavity are all coaxial with one another.

Claim 15 (original): The optical subassembly as described in claim 9, wherein the lens holder is made of transparent material.

Claim 16 (original): The optical subassembly as described in claim 9, wherein the protuberance includes a surface adapted to abut an end surface of the optical connector.

Claim 17 (currently amended): An optical subassembly comprising:
an optical sleeved sleeve defining a fixing hole for receiving an optical connector;
a lens holder defining a cavity receiving an optical element therein;
a lens positioned in the lens holder and facing to and aligned with said fixing hole; and
an interengagement device formed on an interface between said optical sleeve and said lens holder for fittingly coupling said optical sleeve and said lens holder together; wherein said interengagement device and said lens are coaxially arranged

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with each other to allow light, from the lens toward the connector, to be transmitted therethrough; wherein

said lens holder is made of transparent material and said lens is integrally formed with said lens holder and with the same material thereof.